



IPC325-4M-PD Camera Datasheet

Contents

Overview	3
Key features	3
Specifications	5
Dimensions	8
Additional information	8
Document history	8

I Overview

Adopting a 4 megapixel progressive scan CMOS sensor, the network camera can provide a high-definition professional surveillance and security solution. Smart intrusion prevention, support false alarm filtering. Designed for indoor and outdoor environments, it is IP66 weatherproof, ideal for Large-scale entrances and exits, squares, subways and other entrance and exit scenes, etc. It is compatible with ONVIF Profile T, Profile G and Profile S protocol, enabling interoperability with numerous third-party devices.

- Fixed Camera and PTZ Camera Integration, Dual Channels with One IP, Look at Overall Situation and Consider Details at the Same Time
- H.265+, H.265, H.264, MJPEG
- High Quality Image with 4mp, 1/2.7" CMOS Sensor
- 25x Optical Zoom of PTZ Channel Allows for Closer Viewing of Subjects
- Smart Intrusion Prevention, Support False Alarm Filtering, Include Cross Line, Intrusion, Enter Area, Leave Area Detection
- ONVIF® Profile G, S and T Conformant



I Key features

Improve Image Quality In Varying Light Conditions

A Wide Dynamic Range (WDR) of 120dB can capture greater scale of brightness. Even in high contrast light, it can minimize shadowing effects and renders images true to life.

Present Dual View by Bullet & PTZ Dual Channel

This camera integrates a bullet view and a detailed PTZ view to provide a big picture and small details, focusing on details while maintaining a comprehensive view of the surveillance area.

3D DNR

Developed for shooting at night or in dimly lit places, 3D Digital Noise Reduction (DNR) decreases picture noise and reduces colourmixture errors. 3D DNR removes the grainy fuzzy appearances of low light images, will handle moving objects without leaving tails behind, and in low light, it makes an image clearer and sharper compared to no noise reduction or 2D DNR. 3D DNR is essential to producing a clear image from your security cameras..

Smart Behavior Detection Identify the True Threats

Smart behavior detection enjoys the reduction of false alarms. If a potential intruder is detected, security cameras trigger the built-in strobe light and audio alarm, and auto tracking the intruder.

ONVIF Ensures Compatibility

This camera is compatible with devices that support ONVIF, therefore you can easily establish a stable and varied network, with no need to check the long compatibility list.

IP66 ingress protection

IP66 ingress protection completes protection against, contact with live or moving parts inside the enclosure and against the ingress of dust. Capable of withstanding temperatures from -40°C ~ +65°C (-40° F ~ +149° F), the cameras perform well even in demanding environments.

H.265 and smart encoding technology

Smart encoding technology can reduce storage costs without sacrificing resolution and frame rate. Under the same configuration, H.265 with smart encoding technology only costs one hard disk to store the same video record which needs four hard disks under H.264, saving 75% storage cost.

Multiple ways of management

The camera supports different ways of management. Free monitoring softwares and Apps are available to view, manage and record the camera through the connected NVR, computer or mobile phone.

Specifications

Table 1 shows the technical specification for FS IPC325-4M-PD.

Table 1. Technical specification

Camera	Panorama	Detail			
Sensor	1/1.8", 4MP, CMOS	1/2.7", 4MP, CMOS			
Min. Illumination	Color:0.0005 lux (F1.0, AGC ON) 0 lux with warm light	Color:0.003 lux (F1.5, AGC ON) 0 lux with IR			
Day/Night	N/A	IR-cut filter with auto switch (ICR)			
Shutter	Auto/Manual, 1 ~ 1/100000s				
WDR	120dB				
S/N	>56dB				
Lens					
Lens type	4mm@F1.0	4.8~120mm@F1.5 , AF automatic focusing and motorized zoom lens			
Optical Zoom	N/A	25X			
Iris	Fixed aperture; F1.0	Auto; F1.5(W)~F3.8(T)			
Field of View (H)	94.9°	55.46° ~ 3.09°			
Field of View (V)	51.5°	32.94° ~ 1.73°			
Field of View (D)	116.7°	68.22° ~ 3.65°			
DORI					
DORI Distance	Lens (mm)	Detect (m)	Observe (m)	Recognize (m)	Identify (m)
	4 (Panorama)	62.1 (203.6 ft)	24.8 (81.5 ft)	12.4 (40.7 ft)	6.2 (20.4 ft)
	4.8 (Detail)	123.8 (406.0 ft)	49.5 (162.4 ft)	24.8 (81.2 ft)	12.4 (40.6 ft)
	120 (Detail)	2475.0 (8120.1 ft)	990.0 (3248.0 ft)	495.0 (1624.0 ft)	247.5 (812.0 ft)
Illuminator					
IR Range	N/A	Up to 100m (328.1 ft)			
Warm Light Range	Up to 30m (98.4 ft)	N/A			
Wavelength	N/A	850nm (IR)			
Light On/Off Control	Auto/Manual				
Video					
Video Compression	H.265+. H.265. H.264. MIPEG				

Frame Rate	Main Stream: 4MP (2688*1520),Max 30fps; Sub Stream: 1080P (1920*1080), Max 30fps; Third Stream: D1 (720*576), Max 30fps;	Main Stream: 4MP (2688*1520),Max 30fps; Sub Stream: 720P (1280*720), Max 30fps; Third Stream: D1 (720*576), Max 30fps;
Video Bit Rate	128 Kbps ~ 16 Mbps	
U-code	Support	
ROI	Up to 8 areas	
Video stream	Triple streams	
OSD	Up to 8 OSDs	
Privacy Mask	Up to 4 areas per scene	24 areas, up to 4 areas per scene
Image		
White Balance	Auto/Outdoor/Fine Tune/Sodium Lamp/Locked/Auto2	
Digital noise reduction	2D/3D DNR	
Smart IR	Support	
Flip	Normal/Flip Vertical/Flip Horizontal/180°	
HLC	Support	
BLC	Support	
Defog	Digital defog	
Intelligent		
Smart Intrusion Prevention	Support false alarm filtering: Cross line detection, Intrusion detection, Enter area detection, Leave area detection	
People Counting	Support people flow counting and crowd density monitoring	
Linkage Function	Support. Triggered by fixed lens via smart intrusion prevention function to track target	N/A
Events		
Basic Detection	Motion detection, Audio detection, Tampering Alarm	Basic Detection
Auto Tracking	N/A	Support
General Function	Watermark, IP Address Filtering, Alarm input, Alarm output, Access Policy, ARP Protection, RTSP Authentication, User Authentication	

Audio

Audio Compression	G.711U, G.711A
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Audio Bitrate	64 Kbps
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Audio External Audio 1 in/1 out

Suppression Support

Sampling Rate	8 kHz
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Storage

Edge Storage	Micro SD, up to 256 GB
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Network Storage	ANR, NAS(NFS)
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Network

Protocols	IPv4, IGMP, ICMP, ARP, TCP, UDP, DHCP, PPPoE, RTP, RTSP, RTCP, DNS, DDNS, NTP, FTP, UPnP, HTTP, HTTPS, SMTP, 802.1x, SNMP, QoS, RTMP, SSL/TLS
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Compatible Integration	ONVIF (Profile S, Profile G, Profile T), API, SDK
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User/Host	Up to 32 users. 3 user levels: administrator, operator and common user
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Security	Password protection, strong password, HTTPS encryption, Export operation logs, basic and digest authentication for RTSP, digest authentication for HTTP, TLS 1.2, WSSE and digest authentication for ONVIF
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	FS Camera Station
Client	FS Management Tool
	FS Protect Mobile

Web Browser Plug-in required live view: IE 10 and above, Chrome 45 and above, Firefox 52 and above, Edge 79 and above

Pan & Tilt

Pan Range	N/A	360°
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Pan Speed	N/A	0.1° /s ~ 80° /s
	Preset speed: N/A	Preset speed: 80° /s

Tilt Range	$18^{\circ} \pm 5^{\circ}$	$-15^{\circ} \sim 90^{\circ}$
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Tilt Speed	N/A	0.1° /s ~ 80° /s
	Preset speed: N/A	Preset speed: 80° /s

Number of Presets	1024
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Preset Patrol	16 patrols, up to 64 presets for each patrol
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Route Patrol	16 patrols, up to 32 actions for each patrol
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Recorded Patrol	16 patrols, up to 128 actions for each patrol
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Patrol Stay Time	15s~1800s
Preset Image Freeze	N/A
Home Position	Support

Interface

Audio I/O	1/1
Alarm I/O	2/1
Serial Port	1 RS485
Built-in Mic	N/A
Built-in Speaker	Support
Wi-Fi	N/A
Network	1 * RJ45 10M/100M Base-TX Ethernet
Video Output	N/A

Certification

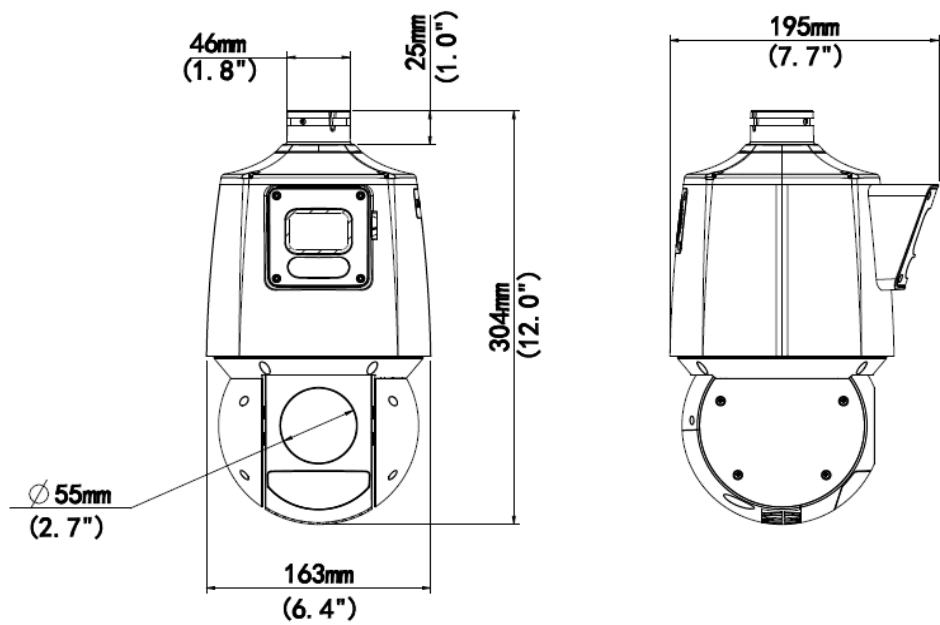
EMC	CE-EMC (EN 55032: 2015+A1:2020,EN 61000-3-3: 2013+A1: 2019,EN IEC 61000-3-2: 2019+A1: 2021,EN 55035: 2017+A11:2020) FCC (FCC CFR 47 part15 B, ANSI C63.4-2014)
Safety	CE LVD (EN 62368-1:2014+A11:2017) CB (IEC 62368-1:2014) UL (UL 62368-1, 2nd Ed., Issue Date: 2014-12-01)
Environment	CE-RoHS (2011/65/EU;(EU)2015/863); WEEE (2012/19/EU); Reach (Regulation (EC) No 1907/2006)
Protection	IP66 (IEC 60529:1989+AMD1:1999+AMD2:2013)

General

Power	DC12V (±25%), PoE+(IEEE 802.3at) Power consumption: MAX 24W
Power Interface	Ø 5.5mm coaxial power plug
Dimensions (Ø x H)	Φ163 x 304mm (Φ6.4" x 12.0")
Weight	2.27kg (5.00lb)
Working Environment	-40°C ~ +65°C(-40° F ~ +149° F), Humidity: ≤95% RH (non-condensing)
Storage Environment	-40°C ~ +70°C(-40° F ~ +158° F), Humidity: ≤95% RH (non-condensing)
Surge protection	6KV
Reset button	Support

*ONVIF is a trademark of ONVIF, Inc.

Dimensions



Additional information

For more information about the IPC325-4M-PD camera, contact your account manager or visit <https://www.fs.com/products/190464.html>

Document history

New or revised topic	Described in	Date
Updates to FS IPC325-4M-PD Camera Data Sheet	Updated all	15/8/2023



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